

MATERIAL SAFETY 3M
 DATA SHEET 3M Center
 St. Paul, Minnesota
 55144-1000
 1-800-364-3577 or (651) 737-6501 (24 hours)

Copyright, 2001, Minnesota Mining and Manufacturing Company.
 All rights reserved. Copying and/or downloading of this
 information for the purpose of properly utilizing 3M products
 is allowed provided that:
 1) the information is copied in full with no changes unless
 prior agreement is obtained from 3M, and
 2) neither the copy nor the original is resold or otherwise
 distributed with the intention of earning a profit thereon.

DIVISION: MARINE TRADES PROJECT
 TRADE NAME:

3M(TM) Marine Adhesive Sealant Fast Cure 4200 - White, P.N. 05260,
 06560, 06566
 ID NUMBER/U.P.C.:
 60-9800-3027-8 00-51135-06560-0 60-9800-3031-0 00-51135-05260-0
 60-9800-3296-9 00-51135-06560-0 60-9800-3618-4 00-51135-06566-2
 60-9800-4307-3 - - -
 ISSUED: May 10, 2001
 SUPERSEDES: March 21, 2001
 DOCUMENT: 07-5138-8

1. INGREDIENT	C.A.S. NO.	PERCENT	
URETHANE POLYMER.....	68130-40-5	30.0	- 40.0
POLY(VINYL CHLORIDE).....	9002-86-2	20.0	- 30.0
PLASTICIZER (Europe & Australia CAS 91082-17-6).....	70775-94-9	20.0	- 30.0
XYLENE.....	1330-20-7	5.0	- 10.0
HYDROTREATED LIGHT PETROLEUM DISTILLATES.....	64742-47-8	1.0	- 5.0
TITANIUM DIOXIDE.....	13463-67-7	1.0	- 5.0
DIPHENYLMETHANE-4 4'-DIISOCYANATE (MDI).	101-68-8		< 0.6

This product contains the following toxic chemical or chemicals subject to
 the reporting requirements of Section 313 of Title III of the Emergency
 Planning and Community Right-To-Know Act of 1986 and 40 CFR Part 372:

XYLENE
 DIPHENYLMETHANE-4 4'-DIISOCYANATE (MDI)

2. PHYSICAL DATA

BOILING POINT:..... N/D
 VAPOR PRESSURE:..... N/D
 VAPOR DENSITY:..... 3.66 Air=1
 (Xylene)
 EVAPORATION RATE:..... N/A
 SOLUBILITY IN WATER:..... nil

Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

2. PHYSICAL DATA (continued)

SPECIFIC GRAVITY:..... 1.17 g/cc
PERCENT VOLATILE:..... 7.5 % by wt
pH:..... N/A
VISCOSITY:..... N/D
MELTING POINT:..... N/A

APPEARANCE AND ODOR:
White paste with solvent odor.

3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:..... N/A
Not a flammable solid per testing.
FLAMMABLE LIMITS - LEL:..... 1 %
FLAMMABLE LIMITS - UEL:..... 8 %
AUTOIGNITION TEMPERATURE:..... 851 F

EXTINGUISHING MEDIA:
Water spray, Carbon dioxide, Dry chemical, Foam

SPECIAL FIRE FIGHTING PROCEDURES:
Wear full protective clothing, including helmet, self-contained,
positive pressure or pressure demand breathing apparatus, bunker coat
and pants, bands around arms, waist and legs, face mask, and
protective covering for exposed areas of the head.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
None known.

NFPA HAZARD CODES: HEALTH: 2 FIRE: 2 REACTIVITY: 0
UNUSUAL REACTION HAZARD: none

4. REACTIVITY DATA

STABILITY: Stable

INCOMPATIBILITY - MATERIALS/CONDITIONS TO AVOID:
Amines, Alcohols, Water. Reaction with water, alcohols and amines is
not hazardous if container can vent to the atmosphere to prevent
pressure buildup.

HAZARDOUS POLYMERIZATION: Hazardous polymerization will not occur.

Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

4. REACTIVITY DATA (continued)

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon Monoxide and Carbon Dioxide, Oxides of Nitrogen, Isocyanates.

5. ENVIRONMENTAL INFORMATION

SPILL RESPONSE:

Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment. Ventilate area. Extinguish all ignition sources. Evacuate unprotected personnel from hazard area. Collect using non-sparking tools. Clean up residue with an appropriate organic solvent. Read and follow safety precautions on the solvent label and MSDS. Place in an approved metal container. Seal the container.

RECOMMENDED DISPOSAL:

Incinerate in a permitted hazardous waste incinerator.

ENVIRONMENTAL DATA:

Not determined.

REGULATORY INFORMATION:

Volatile Organic Compounds: 0.73 lb/gal calculated per SCAQMD rule 443.1.
Volatile Organic Compounds: 88 gms/liter calculated per SCAQMD rule 443.1.
VOC Less H2O & Exempt Solvents: 88 gms/liter calculated per SCAQMD rule 443.1.

Since regulations vary, consult applicable regulations or authorities before disposal. In the event of an uncontrolled release of this material, the user should determine if the release qualifies as a reportable quantity. U.S. EPA Hazardous Waste Number = D001 (Ignitable)

EPCRA HAZARD CLASS:

FIRE HAZARD: Yes PRESSURE: No REACTIVITY: No ACUTE: Yes CHRONIC: Yes

6. SUGGESTED FIRST AID

EYE CONTACT:

Immediately flush eyes with large amounts of water. Get immediate medical attention.

Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

6. SUGGESTED FIRST AID (continued)

SKIN CONTACT:

Wash affected area with soap and water.

INHALATION:

If signs/symptoms occur, remove person to fresh air. If signs/symptoms continue, call a physician.

IF SWALLOWED:

Do not induce vomiting. Drink two glasses of water. Call a physician.

7. PRECAUTIONARY INFORMATION

EYE PROTECTION:

Avoid eye contact. Wear safety glasses with side shields.

SKIN PROTECTION:

Avoid skin contact. Wear appropriate gloves when handling this material. A pair of gloves made from the following material(s) are recommended: nitrile rubber, polyethylene/ethylene vinyl alcohol, polyvinyl alcohol.

RECOMMENDED VENTILATION:

Use in a well-ventilated area. Provide sufficient ventilation to maintain emissions below recommended exposure limits.

RESPIRATORY PROTECTION:

Avoid breathing of vapors.

PREVENTION OF ACCIDENTAL INGESTION:

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Wash hands after handling and before eating. Do not ingest.

RECOMMENDED STORAGE:

Store in a cool place. Keep container dry. Keep container closed when not in use. Keep out of the reach of children.

FIRE AND EXPLOSION AVOIDANCE:

Keep container tightly closed. Keep away from heat, sparks, open flame, and other sources of ignition.

 7. PRECAUTIONARY INFORMATION (continued)

EXPOSURE LIMITS

INGREDIENT	VALUE	UNIT	TYPE	AUTH	SKIN*
URETHANE POLYMER.....	NONE	NONE	NONE	NONE	
POLY(VINYL CHLORIDE).....	NONE	NONE	NONE	NONE	
PLASTICIZER (Europe & Australia CAS 91082-17-6).....	NONE	NONE	NONE	NONE	
XYLENE.....	100	PPM	TWA	ACGIH	
XYLENE.....	150	PPM	STEL	ACGIH	
XYLENE.....	100	PPM	TWA	OSHA	
XYLENE.....	150	PPM	STEL	OSHA	
HYDROTREATED LIGHT PETROLEUM DISTILLATES.....	300	PPM	TWA	CMRG	
TITANIUM DIOXIDE.....	10	MG/M3	TWA	ACGIH	
TITANIUM DIOXIDE.....	10	MG/M3	TWA	OSHAV	
	AS DUST				
	OSHA VACATED PEL				
TITANIUM DIOXIDE.....	15	MG/M3	TWA	OSHA	
	AS TOTAL DUST				
TITANIUM DIOXIDE.....	5	MG/M3	TWA	CMRG	
	AS RESPIRABLE DUST				
DIPHENYLMETHANE-4 4'-DIISOCYANATE (MDI).....	0.02	PPM	CEIL	OSHA	
DIPHENYLMETHANE-4 4'-DIISOCYANATE (MDI).....	0.005	PPM	TWA	ACGIH	

* SKIN NOTATION: Listed substances indicated with 'Y' under SKIN refer to the potential contribution to the overall exposure by the cutaneous route including mucous membrane and eye, either by airborne or, more particularly, by direct contact with the substance. Vehicles can alter skin absorption.

SOURCE OF EXPOSURE LIMIT DATA:

- ACGIH: American Conference of Governmental Industrial Hygienists
- CMRG: Chemical Manufacturer Recommended Exposure Guidelines
- OSHA: Occupational Safety and Health Administration
- OSHAV: Occupational Safety and Health Administration Vacated PEL.
 Vacated Permissible Exposure Limits (PEL) are enforced as the OSHA PEL in some states. Check with your local regulatory authority.
- NONE: None Established

 Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

8. HEALTH HAZARD DATA

EYE CONTACT:

Mild Eye Irritation: signs/symptoms can include redness, swelling, pain, and tearing.

SKIN CONTACT:

Mild Skin Irritation (after prolonged or repeated contact): signs/symptoms can include redness, swelling, and itching.

Prolonged or repeated exposure may cause:

Allergic Skin Reaction: signs/symptoms can include redness, swelling, blistering, and itching.

INHALATION:

Irritation (upper respiratory): signs/symptoms can include soreness of the nose and throat, coughing and sneezing.

Prolonged or repeated exposure may cause:

Allergic Respiratory Reaction: signs/symptoms can include difficulty breathing, wheezing, tightness of chest, and respiratory failure.

Prolonged or repeated overexposure, above recommended guidelines, may cause:

Central Nervous System Depression: signs/symptoms can include headache, dizziness, drowsiness, incoordination, slowed reaction time, slurred speech, giddiness and unconsciousness.

IF SWALLOWED:

Ingestion may cause:

Irritation of Gastrointestinal Tissues: signs/symptoms can include pain, vomiting, abdominal tenderness, nausea, blood in vomitus, and blood in feces.

Central Nervous System Depression: signs/symptoms can include headache, dizziness, drowsiness, muscular weakness, incoordination, slowed reaction time, fatigue, blurred vision, slurred speech, giddiness, tremors and convulsions.

OTHER HEALTH HAZARD INFORMATION:

P,P'-METHYLENEBIS(PHENYL ISOCYANATE) (101-68-8): Persons previously sensitized to an isocyanate, or persons with a preexisting, non-specific bronchial hyperreactivity, can respond to concentrations below the TLV. These symptoms, which can include chest tightness, wheezing, cough, shortness of breath, or asthma attack, could be immediate or delayed (up to several hours after exposure).

Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

8. HEALTH HAZARD DATA (continued)

SECTION CHANGE DATES

HEADING	SECTION CHANGED SINCE	March 21, 2001	ISSUE
PHYSICAL DATA	SECTION CHANGED SINCE	March 21, 2001	ISSUE
SUGG. FIRST AID	SECTION CHANGED SINCE	March 21, 2001	ISSUE
PRECAUTIONARY INFO.	SECTION CHANGED SINCE	March 21, 2001	ISSUE
HEALTH HAZARD DATA	SECTION CHANGED SINCE	March 21, 2001	ISSUE

Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

The information in this Material Safety Data Sheet (MSDS) is believed to be correct as of the date issued. 3M MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a 3M product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.

3M provides information in electronic form as a service to its customers. Due to the remote possibility that electronic transfer may have resulted in errors, omissions or alterations in this information, 3M makes no representations as to its completeness or accuracy. In addition, information obtained from a database may not be as current as the information in the MSDS available directly from 3M.